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We claim:

1. A compound having the general formula (A),

$$R^3$$
  $X$   $R^2$   $R^{25}$   $R^{25}$   $R^{26}$   $R^{26}$   $R^{26}$   $R^{26}$ 

10 wherein:

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the dotted lines represent an optional double bond, provided that no two double bonds are adjacent to one another, and that the dotted lines represent at least 3, optionally 4 double bonds;

R<sup>1</sup> is selected from hydrogen, aryl, heterocyclic, C<sub>1</sub>-C<sub>10</sub> alkoxy,

C<sub>1</sub>-C<sub>10</sub> thioalkyl, C<sub>1</sub>-C<sub>10</sub> alkyl-amino, C<sub>1</sub>-C<sub>10</sub> dialkyl-amino, C<sub>3-10</sub> cycloalkyl, C<sub>4-10</sub> cycloalkenyl, and C<sub>4-10</sub> cycloalkynyl, wherein each are optionally substituted with 1 or more R<sup>6</sup>;

Y is selected from single bond, O,  $S(O)_m$ ,  $NR^{11}$ , or  $C_{1-10}$  alkylene,  $C_{2-10}$  alkenylene,  $C_{2-10}$  alkynylene, wherein each may optionally include 1 to 3 heteroatoms selected from O, S or N;

 $R^2$  and  $R^4$  are independently selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{2-18}$  alkynyl,  $C_{1-18}$  alkoxy,  $C_{1-18}$  alkylthio, halogen, -OH, -CN, -NO<sub>2</sub>, -NR<sup>7</sup>R<sup>8</sup>,

haloalkyloxy, haloalkyl, -C(=O)R9, -C(=S)R9, SH, aryl, aryloxy, arylthio, arylalkyl,

C<sub>1-18</sub> hydroxyalkyl, C<sub>3-10</sub> cycloalkyl, C<sub>3-10</sub> cycloalkyloxy, C<sub>3-10</sub> cycloalkylthio, C<sub>3-10</sub>

cycloalkenyl,  $C_{7-10}$  cycloalkynyl, or heterocyclic, provided that when one of  $R^{25}$  or  $R^{26}$  is present, then either  $R^2$  or  $R^4$  is selected from (=O), (=S), and =N $R^{27}$ ;

X is selected from  $C_1.C_{10}$  alkylene,  $C_{2-10}$  alkenylene or  $C_{2-10}$  alkynylene, where each may include one or more heteroatoms selected from O, S, or N, provided any such heteroatom is not adjacent to the N in the ring;

m is any integer from 0 to 2;

R<sup>3</sup> is selected from aryl, aryloxy, arylthio, cycloalkyl, cycloalkenyl, cycloalkynyl, aryl-N(R<sup>10</sup>)-, or heterocyclic, where each said substituent may be optionally substituted with at least one R<sup>17</sup>, provided that for cycloalkenyl the double bond is not adjacent to a nitrogen, and provided R<sup>3</sup> M-Q- is not biphenyl;

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 $R^5$  is selected from hydrogen;  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{2-18}$  alkynyl,  $C_{1-18}$  alkoxy,  $C_{1-18}$  alkylthio, halogen, -OH, -CN, -NO<sub>2</sub>, -NR<sup>7</sup>R<sup>8</sup>, haloalkyloxy, haloalkyl, -C(=O)R<sup>9</sup>, -C(=O)OR<sup>9</sup>, -C(=S)R<sup>9</sup>, SH, aryl, aryloxy, arylthio, arylalkyl,  $C_{1-18}$  hydroxyalkyl,  $C_{3-10}$  cycloalkyl,  $C_{3-10}$  cycloalkyloxy,  $C_{3-10}$  cycloalkylthio,  $C_{3-10}$  cycloalkynyl, or heterocyclic;

R<sup>6</sup> is selected from hydrogen, C<sub>1-18</sub> alkyl, C<sub>2-18</sub> alkenyl, C<sub>2-18</sub> alkynyl, C<sub>1-18</sub> alkynyl, C<sub>1-18</sub> alkynyl, C<sub>1-18</sub> alkylsulfonide, C<sub>1-18</sub> alkylsulfone, C<sub>1-18</sub> halo-alkyl, C<sub>2-18</sub> halo-alkyl, C<sub>2-18</sub> halo-alkynyl, C<sub>1-18</sub> halo-alkoxy, C<sub>1-18</sub> halo-alkylthio, C<sub>3-10</sub> cycloalkyl, C<sub>3-10</sub> cycloalkynyl, halogen, OH, CN, cyanoalkyl, -CO<sub>2</sub>R<sup>18</sup>, NO<sub>2</sub>, -NR<sup>7</sup>R<sup>8</sup>, C<sub>1-18</sub> haloalkyl, C(=O)R<sup>18</sup>, C(=S)R<sup>18</sup>, SH, aryl, aryloxy, arylthio, arylsulfoxide, arylsulfone, arylsulfonamide, aryl(C<sub>1-18</sub>)alkyl, aryl(C<sub>1-18</sub>)alkyloxy, aryl(C<sub>1-18</sub>)alkylthio, heterocyclic, C<sub>1-18</sub> hydroxyalkyl, where each may be optionally substituted with at least 1 R<sup>19</sup>;

R<sup>7</sup> and R<sup>8</sup> are independently selected from hydrogen, C<sub>1-18</sub> alkyl, C<sub>1-18</sub> alkenyl, aryl, C<sub>3-10</sub> cycloalkyl, C<sub>4-10</sub> cycloalkenyl, heterocyclic, -C(=O)R<sup>12</sup>; -C(=S) R<sup>12</sup>, an amino acid residue linked through a carboxyl group thereof, or where R<sup>7</sup> and R<sup>8</sup> together with the nitrogen form a heterocyclic;

R<sup>9</sup> and R<sup>18</sup> are independently selected from hydrogen, OH, C<sub>1-18</sub> alkyl, C<sub>2-18</sub> alkenyl, C<sub>3-10</sub> cycloalkyl, C<sub>4-10</sub> cycloalkenyl, C<sub>1-18</sub> alkoxy, -NR<sup>15</sup>R<sup>16</sup>, aryl, an amino acid residue linked through an amino group of the amino acid, CH<sub>2</sub>OCH(=O)R<sup>9a</sup>, or CH<sub>2</sub>OC(=O)OR<sup>9a</sup> where R<sup>9a</sup> is C<sub>1</sub>-C<sub>12</sub> alkyl, C<sub>6</sub>-C<sub>20</sub> aryl, C<sub>6</sub>-C<sub>20</sub> alkylaryl or C<sub>6</sub>-C<sub>20</sub> aralkyl;

 $R^{10}$  and  $R^{11}$  are independently selected from the group consisting of hydrogen,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl, aryl,  $-C(=O)R^{12}$ , heterocyclic, or an amino acid residue;

R<sup>12</sup> is selected from the group consisting of hydrogen, C<sub>1-18</sub> alkyl, C<sub>2-18</sub>
35 alkenyl, aryl, C<sub>3-10</sub> cycloalkyl, C<sub>4-10</sub> cycloalkenyl, or an amino acid residue;

 $R^{15}$  and  $R^{16}$  are independently selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{2-18}$  alkynyl, aryl,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl, or an amino acid residue;

R<sup>17</sup> is independently M-Q- wherein M is a ring optionally substituted with 1 or more R<sup>19</sup>, and Q is a bond or a linking group connecting M to R<sup>3</sup> having 1 to 10 atoms and optionally substituted with 1 or more R<sup>19</sup>;

 $R^{19}$  is selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{2-18}$  alkynyl,  $C_{1-18}$  alkoxy,  $C_{2-18}$  alkenyloxy,  $C_{2-18}$  alkynyloxy,  $C_{1-18}$  alkylthio,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkynyl, halogen, -OH, -CN, cyanoalkyl, -NO<sub>2</sub>, -NR<sup>20</sup>R<sup>21</sup>,  $C_{1-18}$  haloalkyl,  $C_{1-18}$  haloalkyloxy, -C(=O)R<sup>18</sup>, -C(=O)OR<sup>18</sup>, -OalkenylC(=O)OR<sup>18</sup>, -OalkylC(=O)NR<sup>20</sup>R<sup>21</sup>, -OalkylOC(=O)R<sup>18</sup>, -C(=S)R<sup>18</sup>, SH, -C(=O)N(C<sub>1-6</sub> alkyl), -N(H)S(O)(O)(C<sub>1-6</sub> alkyl), aryl, heterocyclic,  $C_{1-18}$ alkylsulfone, arylsulfoxide, arylsulfonamide, aryl( $C_{1-18}$ )alkyloxy, aryloxy, aryl( $C_{1-18}$ )alkylhio or aryl( $C_{1-18}$ )alkyl, where each may be optionally substituted with 1 or more =O, NR<sup>20</sup>R<sup>21</sup>, CN,  $C_{1-18}$  alkoxy, heterocyclic,  $C_{1-18}$  haloalkyl, heterocyclic alkyl, heterocyclic connected to R<sup>17</sup> by alkyl, alkoxyalkoxy or halogen;

 $R^{20}$  and  $R^{21}$  are independently selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{2-18}$  alkynyl, aryl,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl,  $-C(=O)R^{12}$ , or  $-C(=S)R^{12}$ ;

R<sup>27</sup> is selected from hydrogen, C<sub>1-18</sub> alkyl, C<sub>3-10</sub> cycloalkyl, (C<sub>3-10</sub> cycloalkyl)25 C<sub>1-6</sub> alkyl, aryl, and aryl C<sub>1-18</sub> alkyl, and
salts, tautomers, isomers and solvates thereof.

## 2. A compound having the general formula (A),

$$R^3$$
  $X$   $R^{25}$   $R^{25}$   $R^{26}$   $R^{26}$   $R^{26}$   $R^{26}$ 

wherein:

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the dotted lines represent an optional double bond, provided that no two double bonds are adjacent to one another, and that the dotted lines represent at least 3, optionally 4 double bonds;

 $R^1$  is selected from hydrogen, aryl, heterocyclic,  $C_1.C_{10}$  alkoxy,  $C_1.C_{10}$  thioalkyl,  $C_1.C_{10}$  alkyl-amino,  $C_1.C_{10}$  dialkyl-amino,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl, and  $C_{4-10}$  cycloalkynyl, wherein each are optionally substituted with 1 or more  $R^6$ ;

Y is selected from single bond, O,  $S(O)_m$ ,  $NR^{11}$ , or  $C_{1-10}$  alkylene,  $C_{2-10}$  alkenylene,  $C_{2-10}$  alkynylene, wherein each may optionally include 1 to 3 heteroatoms selected from O, S or N;

 $R^2$  and  $R^4$  are independently selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{2-18}$  alkynyl,  $C_{1-18}$  alkoxy,  $C_{1-18}$  alkylthio, halogen, -OH, -CN, -NO<sub>2</sub>, -NR<sup>7</sup>R<sup>8</sup>, haloalkyloxy, haloalkyl, -C(=O)R<sup>9</sup>, -C(=S)R<sup>9</sup>, SH, aryl, aryloxy, arylthio, arylalkyl,  $C_{1-18}$  hydroxyalkyl,  $C_{3-10}$  cycloalkyl,  $C_{3-10}$  cycloalkyloxy,  $C_{3-10}$  cycloalkylthio,  $C_{3-10}$  cycloalkenyl,  $C_{7-10}$  cycloalkynyl, or heterocyclic, provided that when one of  $R^{25}$  or  $R^{26}$  is present, then either  $R^2$  or  $R^4$  is selected from (=O), (=S), and =NR<sup>27</sup>;

X is selected from  $C_1.C_{10}$  alkylene,  $C_{2-10}$  alkenylene or  $C_{2-10}$  alkynylene, where each may include one or more heteroatoms selected from O, S, or N, provided any such heteroatom is not adjacent to the N in the ring;

m is any integer from 0 to 2;

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R<sup>3</sup> is a heterocycle optionally substituted with at least one R<sup>17</sup> provided, however, that R<sup>3</sup> optionally substituted with at least one R<sup>17</sup> is not pyridinyl or 5-chlorothienyl, provided that R<sup>3</sup>-MQ is not biphenyl;

R<sup>5</sup> is selected from hydrogen; C<sub>1-18</sub> alkyl, C<sub>2-18</sub> alkenyl, C<sub>2-18</sub> alkynyl, C<sub>1-18</sub> alkynyl, C<sub>1-18</sub> alkoxy, C<sub>1-18</sub> alkylthio, halogen, -OH, -CN, -NO<sub>2</sub>, -NR<sup>7</sup>R<sup>8</sup>, haloalkyloxy, haloalkyl, 30 -C(=O)R<sup>9</sup>, -C(=O)OR<sup>9</sup>, -C(=S)R<sup>9</sup>, SH, aryl, aryloxy, arylthio, arylalkyl, C<sub>1-18</sub> hydroxyalkyl, C<sub>3-10</sub> cycloalkyl, C<sub>3-10</sub> cycloalkyloxy, C<sub>3-10</sub> cycloalkylthio, C<sub>3-10</sub> cycloalkynyl, or heterocyclic;

R<sup>6</sup> is selected from hydrogen, C<sub>1-18</sub> alkyl, C<sub>2-18</sub> alkenyl, C<sub>2-18</sub> alkynyl, heterocyclic, C<sub>1-18</sub> alkoxy, C<sub>1-18</sub> alkylthio, C<sub>1-18</sub> alkylsulfoxide, C<sub>1-18</sub> alkylsulfone, C<sub>1-18</sub> halo-alkyl, C<sub>2-18</sub> halo-alkenyl, C<sub>2-18</sub> halo-alkynyl, C<sub>1-18</sub> halo-alkoxy, C<sub>1-18</sub> halo-alkylthio, C<sub>3-10</sub> cycloalkyl, C<sub>3-10</sub> cycloalkenyl, C<sub>7-10</sub> cycloalkynyl, halogen, OH, CN,

5 cyanoalkyl, -CO<sub>2</sub>R<sup>18</sup>, NO<sub>2</sub>, -NR<sup>7</sup>R<sup>8</sup>, C<sub>1-18</sub> haloalkyl, C(=O)R<sup>18</sup>, C(=S)R<sup>18</sup>, SH, aryl, aryloxy, arylthio, arylsulfoxide, arylsulfone, arylsulfonamide, aryl(C<sub>1-18</sub>)alkyl, aryl(C<sub>1-18</sub>)alkyloxy, aryl(C<sub>1-18</sub>)alkylthio, C<sub>1-18</sub> hydroxyalkyl, where each may be optionally substituted with at least 1 R<sup>19</sup>;

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 $R^7$  and  $R^8$  are independently selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{1-18}$  alkenyl, aryl,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl, heterocyclic,  $-C(=O)R^{12}$ ;  $-C(=S)R^{12}$ , an amino acid residue linked through a carboxyl group thereof, or where  $R^7$  and  $R^8$  together with the nitrogen form a heterocyclic;

 $R^9$  and  $R^{18}$  are independently selected from hydrogen, OH,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl,  $C_{1-18}$  alkoxy, -NR<sup>15</sup>R<sup>16</sup>, aryl, an amino acid residue linked through an amino group of the amino acid, CH<sub>2</sub>OCH(=O)R<sup>9a</sup>, or CH<sub>2</sub>OC(=O)OR<sup>9a</sup> where  $R^{9a}$  is  $C_1$ - $C_{12}$  alkyl,  $C_6$ - $C_{20}$  aryl,  $C_6$ - $C_{20}$  alkylaryl or  $C_6$ - $C_{20}$  aralkyl:

 $R^{10}$  and  $R^{11}$  are independently selected from the group consisting of hydrogen,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl, aryl,  $-C(=0)R^{12}$ , heterocyclic, or an amino acid residue;

 $R^{12}$  is selected from the group consisting of hydrogen,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl, aryl,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl, or an amino acid residue;

 $R^{15}$  and  $R^{16}$  are independently selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{2-18}$  alkynyl, aryl,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl, or an amino acid residue;

R<sup>17</sup> is independently selected from the group consisting of hydrogen, C<sub>1-18</sub> alkyl, C<sub>2-18</sub> alkenyl, C<sub>2-18</sub> alkynyl, C<sub>1-18</sub> alkoxy, C<sub>1-18</sub> alkylthio, C<sub>1-18</sub> alkylsulfoxide, C<sub>1-18</sub> alkylsulfone, C<sub>1-18</sub> halogenated alkyl, C<sub>2-18</sub> halogenated alkenyl, C<sub>2-18</sub>

halogenated alkynyl, C<sub>1-18</sub> halogenated alkoxy, C<sub>1-18</sub> halogenated alkylthio, C<sub>3-10</sub>

cycloalkyl, C<sub>3-10</sub> cycloalkenyl, C7-10 cycloalkynyl, halogen, OH, CN, CO<sub>2</sub>H, CO<sub>2</sub>R<sup>18</sup>, NO<sub>2</sub>, NR<sup>7</sup>R<sup>8</sup>, haloalkyl, C(=O)R<sup>18</sup>, C(=S)R<sup>18</sup>, SH, aryl, aryloxy, arylthio, arylsulfoxide, arylsulfone, arylsulfonamide, arylalkyl, arylalkyloxy, arylalkylthio, heterocyclic, C<sub>1-18</sub> hydroxyalkyl, where each of said aryl, aryloxy, arylalkylthio, arylsulfoxide, arylsulfone, arylsulfonamide, arylalkyl, arylalkyloxy, arylalkylthio, heterocycle, or C<sub>1-18</sub> hydroxyalkyl is optionally substituted with 1 or more R<sup>19</sup>;

R<sup>19</sup> is selected from hydrogen, C<sub>1-18</sub> alkyl, C<sub>2-18</sub> alkenyl, C<sub>1-18</sub> alkynyl, C<sub>1-18</sub> alkoxy, C<sub>2-18</sub> alkenyloxy, C<sub>2-18</sub> alkynyloxy, C<sub>1-18</sub> alkylthio, C<sub>3-10</sub> cycloalkyl, C<sub>4-10</sub> cycloalkynyl, halogen, -OH, -CN, cyanoalkyl, -NO<sub>2</sub>, -NR<sup>20</sup>R<sup>21</sup>, C<sub>1-18</sub> haloalkyl, C<sub>1-18</sub> haloalkyloxy, -C(=O)R<sup>18</sup>, -C(=O)OR<sup>18</sup>, -OalkenylC(=O)OR<sup>18</sup>, -OalkylC(=O)NR<sup>20</sup>R<sup>21</sup>, -OalkylOC(=O)R<sup>18</sup>, -C(=S)R<sup>18</sup>, SH, -C(=O)N(C<sub>1-6</sub> alkyl), -N(H)S(O)(O)(C<sub>1-6</sub> alkyl), aryl, heterocyclic, C<sub>1-18</sub>alkylsulfone, arylsulfoxide, arylsulfonamide, aryl(C<sub>1-18</sub>)alkyloxy, aryloxy, aryl(C<sub>1-18</sub> alkyl)oxy, arylthio, aryl(C<sub>1-18</sub>)alkylthio or aryl(C<sub>1-18</sub>)alkyl, where each may be optionally substituted with 1 or more =O, NR<sup>20</sup>R<sup>21</sup>, CN, C<sub>1-18</sub> alkoxy, heterocyclic, C<sub>1-18</sub> haloalkyl, heterocyclic alkyl, heterocyclic connected to R<sup>17</sup> by alkyl, alkoxyalkoxy or halogen;

 $R^{20}$  and  $R^{21}$  are independently selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{2-18}$  alkynyl, aryl,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl,  $-C(=O)R^{12}$ , carboxylester-substituted heterocyclic or  $-C(=S)R^{12}$ ;

 $R^{25}$  and  $R^{26}$  are not present, or are independently selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{3-10}$  cycloalkyl, aryl, heterocyclic, where each is optionally independently substituted with 1 to 4 of  $C_{1-6}$  alkyl,  $C_{1-6}$  alkoxy, halo,  $CH_2OH$ , benzyloxy, and OH; and

 $R^{27}$  is selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{3-10}$  cycloalkyl,  $(C_{3-10}$  cycloalkyl)- $C_{1-6}$  alkyl, aryl, and aryl  $C_{1-18}$  alkyl, and

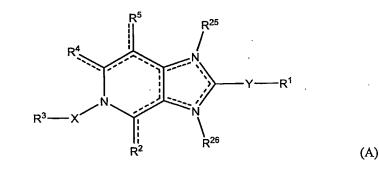
the salts, tautomers, isomers and solvates thereof.

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3. A compound having the general formula (A),



wherein:

the dotted lines represent an optional double bond, provided that no two double bonds are adjacent to one another, and that the dotted lines represent at least 3, optionally 4 double bonds;

 $R^1$  is selected from hydrogen, aryl, heterocyclic,  $C_1$ - $C_{10}$  alkoxy,  $C_1$ - $C_{10}$  thioalkyl,  $C_1$ - $C_{10}$  alkyl-amino,  $C_1$ - $C_{10}$  dialkyl-amino,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl, and  $C_{4-10}$  cycloalkynyl, wherein each are optionally substituted with 1 or more  $R^6$ :

Y is selected from single bond, O,  $S(O)_m$ ,  $NR^{11}$ , or  $C_{1-10}$  alkylene,  $C_{2-10}$  alkenylene,  $C_{2-10}$  alkynylene, wherein each may optionally include 1 to 3 heteroatoms selected from O, S or N;

 $R^2$  and  $R^4$  are independently selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{2-18}$  alkynyl,  $C_{1-18}$  alkoxy,  $C_{1-18}$  alkylthio, halogen, -OH, -CN, -NO<sub>2</sub>, -NR<sup>7</sup>R<sup>8</sup>, haloalkyloxy, haloalkyl, -C(=O)R<sup>9</sup>, -C(=S)R<sup>9</sup>, SH, aryl, aryloxy, arylthio, arylalkyl,  $C_{1-18}$  hydroxyalkyl,  $C_{3-10}$  cycloalkyl,  $C_{3-10}$  cycloalkyloxy,  $C_{3-10}$  cycloalkylthio,  $C_{3-10}$  cycloalkynyl, or heterocyclic, provided that when one of  $R^{25}$  or  $R^{26}$  is present, then either  $R^2$  or  $R^4$  is selected from (=O), (=S), and =NR<sup>27</sup>;

X is selected from  $C_1.C_{10}$  alkylene,  $C_{2-10}$  alkenylene or  $C_{2-10}$  alkynylene, where each may include one or more heteroatoms selected from O, S, or N, provided any such heteroatom is not adjacent to the N in the ring;

m is any integer from 0 to 2;

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25 R<sup>3</sup> is a heterocycle optionally substituted with at least one R<sup>17</sup>, provided R<sup>3</sup>-M-Q is not biphenyl;

R<sup>5</sup> is selected from hydrogen; C<sub>1-18</sub> alkyl, C<sub>2-18</sub> alkenyl, C<sub>2-18</sub> alkynyl, C<sub>1-18</sub> alkoxy, C<sub>1-18</sub> alkylthio, halogen, -OH, -CN, -NO<sub>2</sub>, -NR<sup>7</sup>R<sup>8</sup>, haloalkyloxy, haloalkyl, C<sub>1-18</sub> -C(=O)R<sup>9</sup>, -C(=O)OR<sup>9</sup>, -C(=S)R<sup>9</sup>, SH, aryl, aryloxy, arylthio, arylalkyl, C<sub>1-18</sub> hydroxyalkyl, C<sub>3-10</sub> cycloalkyl, C<sub>3-10</sub> cycloalkyloxy, C<sub>3-10</sub> cycloalkylthio, C<sub>3-10</sub> cycloalkenyl, C<sub>7-10</sub> cycloalkynyl, or heterocyclic;

R<sup>6</sup> is selected from hydrogen, C<sub>1-18</sub> alkyl, C<sub>2-18</sub> alkenyl, C<sub>2-18</sub> alkynyl, C<sub>1-18</sub> alkoxy, C<sub>1-18</sub> alkylthio, C<sub>1-18</sub> alkylsulfoxide, C<sub>1-18</sub> alkylsulfone, C<sub>1-18</sub> halo-alkyl, C<sub>2-18</sub> halo-alkenyl, C<sub>2-18</sub> halo-alkynyl, C<sub>1-18</sub> halo-alkoxy, C<sub>1-18</sub> halo-alkylthio, C<sub>3-10</sub> cycloalkyl, C<sub>3-10</sub> cycloalkynyl, halogen, OH, CN, cyanoalkyl, -CO<sub>2</sub>R<sup>18</sup>, NO<sub>2</sub>, -NR<sup>7</sup>R<sup>8</sup>, C<sub>1-18</sub> haloalkyl, C(=O)R<sup>18</sup>, C(=S)R<sup>18</sup>, SH, aryl, aryloxy,

arylthio, arylsulfoxide, arylsulfone, arylsulfonamide, aryl $(C_{1-18})$ alkyl, aryl $(C_{1-18})$ alkyloxy, aryl $(C_{1-18})$ alkylthio, heterocyclic,  $C_{1-18}$  hydroxyalkyl, where each may be optionally substituted with at least 1  $R^{19}$ ;

 $R^7$  and  $R^8$  are independently selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{1-18}$  alkenyl, aryl,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl, heterocyclic,  $-C(=O)R^{12}$ ;  $-C(=S)R^{12}$ , an amino acid residue linked through a carboxyl group thereof, or where  $R^7$  and  $R^8$  together with the nitrogen form a heterocyclic;

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 $R^9$  and  $R^{18}$  are independently selected from hydrogen, OH,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl,  $C_{1-18}$  alkoxy, -NR<sup>15</sup>R<sup>16</sup>, aryl, an amino acid residue linked through an amino group of the amino acid, CH<sub>2</sub>OCH(=O)R<sup>9a</sup>, or CH<sub>2</sub>OC(=O)OR<sup>9a</sup> where  $R^{9a}$  is  $C_1$ - $C_{12}$  alkyl,  $C_6$ - $C_{20}$  aryl,  $C_6$ - $C_{20}$  alkylaryl or  $C_6$ - $C_{20}$  aralkyl;

 $R^{10}$  and  $R^{11}$  are independently selected from the group consisting of hydrogen,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl, aryl,  $-C(=O)R^{12}$ , heterocyclic, or an amino acid residue;

 $R^{12}$  is selected from the group consisting of hydrogen,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl, aryl,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl, or an amino acid residue;

 $R^{15}$  and  $R^{16}$  are independently selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{2-18}$  alkynyl, aryl,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl, or an amino acid residue;

 $R^{17}$  is M-Q-, wherein M is a  $C_{3-10}$  cycloalkyl optionally substituted with 1 or more  $R^{19}$ , and Q is a bond, or  $C_{1-10}$  alkyl optionally substituted with 1 or more  $R^{19}$ ;

R<sup>19</sup> is selected from hydrogen, C<sub>1-18</sub> alkyl, C<sub>2-18</sub> alkenyl, C<sub>2-18</sub> alkynyl, C<sub>1-18</sub> alkoxy, C<sub>2-18</sub> alkenyloxy, C<sub>2-18</sub> alkynyloxy, C<sub>1-18</sub> alkylthio, C<sub>3-10</sub> cycloalkyl, C<sub>4-10</sub> cycloalkynyl, halogen, -OH, -CN, cyanoalkyl, -NO<sub>2</sub>, -NR<sup>20</sup>R<sup>21</sup>,

30 N C<sub>1-18</sub> haloalkyl, C<sub>1-18</sub> haloalkyloxy, -C(=O)R<sup>18</sup>, -C(=O)OR<sup>18</sup>, -OalkenylC(=O)OR<sup>18</sup>, -OalkylC(=O)NR<sup>20</sup>R<sup>21</sup>, -OalkylOC(=O)R<sup>18</sup>, -C(=S)R<sup>18</sup>, SH, -C(=O)N(C<sub>1-6</sub> alkyl), -N(H)S(O)(O)(C<sub>1-6</sub> alkyl), aryl, heterocyclic, C<sub>1-18</sub>alkylsulfone, arylsulfoxide, arylsulfonamide, aryl(C<sub>1-18</sub>)alkyloxy, aryloxy, aryl(C<sub>1-18</sub> alkyl)oxy, arylthio, aryl(C<sub>1-18</sub>)alkylthio or aryl(C<sub>1-18</sub>)alkyl, where each may be optionally substituted with 1 or more =O, NR<sup>20</sup>R<sup>21</sup>, CN, C<sub>1-18</sub> alkoxy, heterocyclic, C<sub>1-18</sub> haloalkyl, heterocyclic alkyl,

heterocyclic connected to R17 by alkyl, alkoxyalkoxy or halogen;

R<sup>20</sup> and R<sup>21</sup> are independently selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{2-18}$  alkynyl, aryl,  $C_{3-1}$  0 cycloalkyl,  $C_{4-10}$  cycloalkenyl,  $-C(=O)R^{12}$ , or  $-C(=S)R^{12}$ ;

 $R^{25}$  and  $R^{26}$  are not present, or are independently selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{3-10}$  cycloalkyl, aryl, heterocyclic, where each is optionally independently substituted with 1 to 4 of  $C_{1-6}$  alkyl,  $C_{1-6}$  alkoxy, halo,  $CH_2OH$ , benzyloxy, and OH; and

 $R^{27}$  is selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{3-10}$  cycloalkyl,  $(C_{3-10}$  cycloalkyl)- $C_{1-6}$  alkyl, aryl, and aryl  $C_{1-18}$  alkyl, and

the salts, tautomers, isomers and solvates thereof.

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- 4. The compound of claim 1, 2 or 3 wherein R<sup>3</sup> is heterocycle.
- 5. The compound of claims 1, 2 or 3 wherein YR<sup>1</sup> is halophenyl.
- 20 6. The compound of claim 5 wherein halophenyl is ortho-fluorophenyl.
  - 7. The compound of claims 1, 2 or 3 wherein  $R^3$  is isoxazolyl substituted with 1  $R^{17}$ .
- 25 8. The compound of claims 1, 2 or 3 wherein R<sup>17</sup> is anyl or an aromatic heterocycle which is substituted with 1, 2 or 3 R<sup>19</sup>.
  - 9. The compound of claims 1, 2 or 3 wherein YR<sup>1</sup> is none of hydrogen, an unsubstituted C<sub>3-10</sub> cycloalkyl, or C<sub>1-6</sub> alkyl.

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- 10. The compound of claim 9 wherein YR<sup>1</sup> is not hydrogen.
  - 11. The compound of claims 1, 2 or 3 wherein R<sup>19</sup> is trihalomethyl, trihalomethoxy, alkoxy or halogen.

5 12. The compound of claims 1, 2 or 3 wherein R<sup>1</sup> is aryl or aromatic heterocyle substituted with 1, 2 or 3 R<sup>6</sup> wherein R<sup>6</sup> is halogen, C<sub>1-18</sub> alkoxy; or C<sub>1-18</sub> haloalkyl.

13. The compound of claims 12 wherein R<sup>1</sup> is phenyl substituted with 1, 2 or 3 halogens.

14. The compound of claims 1, 2 or 3 wherein halogen is fluoro.

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- 15. The compound of claims 1, 2 or 3 wherein Y is a single bond, O, C<sub>1-6</sub> alkylene, C<sub>2-6</sub> alkenylene, C<sub>2-6</sub> alkynylene or one of said groups containing 1 to 3
  15 heteroatoms selected from O, S or NR<sup>11</sup>.
  - 16. The compound of claim 15 wherein Y is  $-O(CH_2)_{1-5}$ -,  $-(CH_2)_{1-4}$ -O- $(CH_2)_{1-4}$ -,  $-S-(CH_2)_{1-5}$ -,  $-(CH_2)_{1-5}$ -,  $-(CH_2)_{1-4}$ -NR<sup>11</sup>- $(CH_2)_{1-4}$ -NR<sup></sup>

The compound of claim 15 wherein Y is -OCH<sub>2</sub>-, -CH<sub>2</sub>O-, C<sub>1-2</sub> alkylene, C<sub>2-3</sub>
 alkenylene, C<sub>2-3</sub> alkynylene, O or a bond.

18. The compound of claim 15 wherein Y is a bond.

The compound of claims 1, 2 or 3 wherein YR<sup>1</sup> is not any one of H, an unsubstituted C<sub>3-10</sub> cycloalkyl or C1-C6 alkyl.

- $\sim$  20. The compound of claims 1, 2 or 3 wherein YR<sup>1</sup> is not H.
- 21. The compound of claims 1, 2 or 3 wherein YR<sup>1</sup> is halo or halomethyl-substituted phenyl.
- 22. The compound of claims 1, 2 or 3 wherein halo or halomethyl are ortho or meta.

5 23. The compound of claims 1, 2 or 3 wherein X is selected from the group consisting of alkylene, alkynylene or alkenylene and said hydrocarbons having an intrachain N, O or S heteroatom.

24. The compound of claims 1, 2 or 3 wherein X is alkyl.

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25. The compound of claim 23 wherein X is selected from the group consisting of  $-CH_{2^-}$ ,  $-CH(CH_3)$ -,  $-CH_2$ - $CH_2$ -,  $-CH_2$ 

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- 26. The compound of claims 1, 2 or 3 wherein X is methylene.
- 27. The compound of claims 1, 2 or 3 wherein  $R^3$  is anyl or a heterocycle substituted with 0 to 3  $R^{17}$ .

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- 28. The compound of claim 27 wherein the heterocycle is an aromatic heterocycle.
- 29. The compound of claim 28 wherein the heterocycle contains 1, 2 or 3 N, S or
  25 O atoms in the ring, is linked to X through a ring carbon atom and contains 4 to 6 total ring atoms.
  - 30. The compound of claims 1, 2 or 3 wherein  $\mathbb{R}^3$  is isoxazolyl substituted with 1  $\stackrel{\sim}{\sim}$  to 3  $\mathbb{R}^{17}$ .

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- 31. The compound of claims 1, 2 or 3 wherein  $R^{17}$  is aryl or a heterocycle further substituted with 1 to 3  $R^{19}$ .
  - 32. The compound of claims 1 or 3 wherein M is aryl or aromatic heterocycle.

5 33. The compound of claims 1 or 3 wherein Q contains 0 to 20 atoms selected from C, O, S, N and H.

- 34. The compound of claims 1 or 3 wherein M is a cyclic group selected from R<sup>17</sup>.
- The compound of claim 2 wherein R<sup>17</sup> is selected from the group consisting of C<sub>3-10</sub> cycloalkyl, C<sub>3-10</sub> cycloalkenyl, C<sub>7-10</sub> cycloalkynyl, halogen, aryl, aryloxy, arylthio, arylsulfoxide, arylsulfone, arylsulfonamide, arylalkyl; arylalkyloxy; arylalkylthio; heterocycle; C<sub>1-18</sub> hydroxyalkyl, each of said C<sub>3-10</sub> cycloalkyl, C<sub>3-10</sub> cycloalkenyl, C<sub>7-10</sub> cycloalkynyl, halogen, aryl, aryloxy, arylthio, arylsulfoxide, arylsulfone, arylsulfonamide, arylalkyl; arylalkyloxy; arylalkylthio; heterocycle; and C<sub>1-18</sub> hydroxyalkyl is unsubstituted or is substituted 1 or more R<sup>19</sup>.
- 36. The compound of claim 2 wherein R<sup>17</sup> is selected from the group consisting of aryl and heterocycle, and where said aryl or heterocycle is optionally substituted with 1 or more R<sup>19</sup>.
  - 37. The compound of claims 1, 2 or 3 wherein R<sup>9</sup> and R<sup>18</sup> are H, OH or alkyl.
  - 38. The compound of claims 1, 2 or 3 wherein R<sup>5</sup> is H.

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- 39. The compound of claims 1, 2 or 3 wherein R<sup>6</sup> is halogen.
- 40. The compound of claims 1, 2 or 3 wherein  $R^7$ ,  $R^8$ ,  $R^{10}$ ,  $R^{11}$ ,  $R^{15}$ ,  $R^{16}$ ,  $R^{20}$ , and  $R^{21}$  are independently H or  $C_{1-18}$  alkyl.

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- 41. The compound of claims 1, 2 or 3 wherein R<sup>12</sup> is OH or alkyl.
- 42. The compound of claims 1, 2 or 3 wherein R<sup>19</sup> is selected from the group consisting of H; C<sub>1-18</sub> alkyl; C<sub>2-18</sub> alkenyl; C<sub>2-18</sub> alkynyl; C<sub>1-18</sub> alkoxy; alkenyloxy;
  35 alkynyloxy; C<sub>1-18</sub> alkylthio; C<sub>3-10</sub> cycloalkyl; C<sub>4-10</sub> cycloalkenyl; C<sub>4-10</sub> cycloalkynyl; halogen; OH; CN; cyanoalkyl; NO<sub>2</sub>; NR<sup>20</sup>R<sup>21</sup>; haloalkyl; haloalkyloxy; C(=O)R<sup>18</sup>;

5 C(=O)OR<sup>18</sup>; OalkenylC(=O)OR<sup>18</sup>; -OalkylC(=O)NR<sup>20</sup>R<sup>21</sup>; aryl; heterocycle; -OalkylOC(=O)R<sup>18</sup>; C(=O)N(C<sub>1-6</sub> alkyl), N(H)S(O)(O)(C<sub>1-6</sub> alkyl); arylalkyloxy; aryloxy; arylalkyloxy; and arylalkyl; each of which is unsubstituted or substituted with 1 or more =O; NR<sup>20</sup>R<sup>21</sup>; CN; alkoxy; heterocycle; haloalkyl- or alkyl-substituted heterocycle; and heterocycle linked to R<sup>17</sup> by alkyl; alkoxyalkoxy or halogen.

- 43. The compound of claim 42 wherein  $R^{19}$  is independently selected from the group consisting of halogen,  $N(R^{20} R^{21})$ , alkoxy. halo-substituted alkyl and halo-substituted alkoxy.
- 44. The compound of claims 1, 2 or 3 wherein R<sup>25</sup> and R<sup>26</sup> are not present.
  - 45. The compound of claims 1, 2 or 3 which is not substituted at  $R^{25}$  but is substituted at  $R^{26}$ , and either  $R^2$  or  $R^4$  is selected from (=0), (=S), and (=N $R^{27}$ ).
- 46. The compound of claims 1, 2 or 3 wherein haloalkyl or haloalkyloxy is -CF3 or -OCF3.
- 47. A composition comprising a pharmaceutically acceptable excipient and a compound of claims 1, 2 or 3.
  - 48. A compound having the general formula (B),

$$R^3$$
 $X$ 
 $R^5$ 
 $R^{25}$ 
 $R^{25}$ 
 $R^{26}$ 
 $R^{26}$ 
 $R^{26}$ 

wherein:

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the dotted lines represent an optional double bond, provided that no two double bonds are adjacent to one another, and that the dotted lines represent at least 3, optionally 4 double bonds;

 $R^1$  is selected from hydrogen, aryl, heterocyclic,  $C_1.C_{10}$  alkoxy,  $C_1.C_{10}$  thioalkyl,  $C_1.C_{10}$  alkyl-amino,  $C_1.C_{10}$  dialkyl-amino,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkynyl, wherein each are optionally substituted with 1 or more  $R^6$ ;

Y is selected from single bond, O, S(O)<sub>m</sub>, NR<sup>11</sup>, or C<sub>1-10</sub> alkylene, C<sub>2-10</sub> alkenylene, C<sub>2-10</sub> alkyrylene, wherein each may optionally include 1 to 3 heteroatoms selected from O, S or N;

R<sup>2</sup> and R<sup>4</sup> are independently selected from hydrogen, C<sub>1-18</sub> alkyl, C<sub>2-18</sub> alkenyl, C<sub>2-18</sub> alkynyl, C<sub>1-18</sub> alkoxy, C<sub>1-18</sub> alkylthio, halogen, -OH, -CN, -NO<sub>2</sub>, -NR<sup>7</sup>R<sup>8</sup>, haloalkyloxy, haloalkyl, -C(=O)R<sup>9</sup>, -C(=S)R<sup>9</sup>, SH, aryl, aryloxy, arylthio, arylalkyl, C<sub>1-18</sub> hydroxyalkyl, C<sub>3-10</sub> cycloalkyl, C<sub>3-10</sub> cycloalkyloxy, C<sub>3-10</sub> cycloalkylthio, C<sub>3-10</sub> cycloalkenyl, C<sub>7-10</sub> cycloalkynyl, or heterocyclic, provided that when one of R<sup>25</sup> or R<sup>26</sup> is present, then either R<sup>2</sup> or R<sup>4</sup> is selected from (=O), (=S), and =NR<sup>27</sup>;

X is selected from  $C_1$ - $C_{10}$  alkylene,  $C_{2-10}$  alkenylene or  $C_{2-10}$  alkynylene, where each may include one or more heteroatoms selected from O, S, or N, provided any such heteroatom is not adjacent to the N in the ring;

m is any integer from 0 to 2;

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R<sup>3</sup> is selected from aryl, aryloxy, arylthio, cycloalkyl, cycloalkenyl, cycloalkynyl, aryl-N(R<sup>10</sup>)-, or heterocyclic, where each said substituent may be optionally substituted with at least one R<sup>17</sup>, provided that for cycloalkenyl the double bond is not adjacent to a nitrogen, and provided R<sup>3</sup> M-Q- is not biphenyl;

R<sup>5</sup> is selected from hydrogen; C<sub>1-18</sub> alkyl, C<sub>2-18</sub> alkenyl, C<sub>2-18</sub> alkynyl, C<sub>1-18</sub>
30 alkoxy, C<sub>1-18</sub> alkylthio, halo gen, -OH, -CN, -NO<sub>2</sub>, -NR<sup>7</sup>R<sup>8</sup>, haloalkyloxy, haloalkyl,
-C(=O)R<sup>9</sup>, -C(=O)OR<sup>9</sup>, -C(=S)R<sup>9</sup>, SH, aryl, aryloxy, arylthio, arylalkyl, C<sub>1-18</sub>
hydroxyalkyl, C<sub>3-10</sub> cycloalkyl, C<sub>3-10</sub> cycloalkyloxy, C<sub>3-10</sub> cycloalkylthio, C<sub>3-10</sub>
cycloalkenyl, C<sub>7-10</sub> cycloalkynyl, or heterocyclic;

R<sup>6</sup> is selected from hydrogen, C<sub>1-18</sub> alkyl, C<sub>2-18</sub> alkenyl, C<sub>2-18</sub> alkynyl, C<sub>1-18</sub>

alkoxy, C<sub>1-18</sub> alkylthio, C<sub>1-18</sub> alkylsulfoxide, C<sub>1-18</sub> alkylsulfone, C<sub>1-18</sub> halo-alkyl, C<sub>2-18</sub>

halo-alkenyl, C<sub>2-18</sub> halo-alkynyl, C<sub>1-18</sub> halo-alkoxy, C<sub>1-18</sub> halo-alkylthio, C<sub>3-10</sub>

5 cycloalkyl, C<sub>3-10</sub> cycloalkenyl, C<sub>7-10</sub> cycloalkynyl, halogen, OH, CN, cyanoalkyl, -CO<sub>2</sub>R<sup>18</sup>, NO<sub>2</sub>, -NR<sup>7</sup>R<sup>8</sup>, C<sub>1-18</sub> haloalkyl, C(=O)R<sup>18</sup>, C(=S)R<sup>18</sup>, SH, aryl, aryloxy, arylthio, arylsulfoxide, arylsulfone, arylsulfonamide, aryl(C<sub>1-18</sub>)alkyl, aryl(C<sub>1-18</sub>)alkyloxy, aryl(C<sub>1-18</sub>)alkylthio, heterocyclic, C<sub>1-18</sub> hydroxyalkyl, where each may be optionally substituted with at least 1 R<sup>19</sup>;

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 $R^7$  and  $R^8$  are independently selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{1-18}$  alkenyl, aryl,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl, heterocyclic,  $-C(=O)R^{12}$ ;  $-C(=S)R^{12}$ , an amino acid residue linked through a carboxyl group thereof, or where  $R^7$  and  $R^8$  together with the nitrogen form a heterocyclic;

 $R^9$  and  $R^{18}$  are independently selected from hydrogen, OH,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl,  $C_{1-18}$  alkoxy, -NR<sup>15</sup>R<sup>16</sup>, aryl, an amino acid residue linked through an amino group of the amino acid, CH<sub>2</sub>OCH(=O)R<sup>9a</sup>, or CH<sub>2</sub>OC(=O)OR<sup>9a</sup> where  $R^{9a}$  is  $C_1$ - $C_{12}$  alkyl,  $C_6$ - $C_{20}$  aryl,  $C_6$ - $C_{20}$  alkylaryl or  $C_6$ - $C_{20}$  aralkyl;

R<sup>10</sup> and R<sup>11</sup> are independently selected from the group consisting of hydrogen,

C<sub>1-18</sub> alkyl, C<sub>2-18</sub> alkenyl, C<sub>3-10</sub> cycloalkyl, C<sub>4-10</sub> cycloalkenyl, aryl, -C(=O)R<sup>12</sup>,

heterocyclic, or an amino acid residue;

R<sup>12</sup> is selected from the group consisting of hydrogen, C<sub>1-18</sub> alkyl, C<sub>2-18</sub> alkenyl, aryl, C<sub>3-10</sub> cycloalkyl, C<sub>4-10</sub> cycloalkenyl, or an amino acid residue;

R<sup>15</sup> and R<sup>16</sup> are independently selected from hydrogen, C<sub>1-18</sub> alkyl, C<sub>2-18</sub>
alkenyl, C<sub>2-18</sub> alkynyl, aryl, C<sub>3-10</sub> cycloalkyl, C<sub>4-10</sub> cycloalkenyl, or an amino acid residue;

R<sup>17</sup> is independently M-Q- wherein M is a ring optionally substituted with 1 or more R<sup>19</sup>, and Q is a bond or a linking group connecting M to R<sup>3</sup> having 1 to 10 atoms and optionally substituted with 1 or more R<sup>19</sup>;

R<sup>19</sup> is selected from hydrogen, C<sub>1-18</sub> alkyl, C<sub>2-18</sub> alkenyl, C<sub>2-18</sub> alkynyl, C<sub>1-18</sub> alkoxy, C<sub>2-18</sub> alkenyloxy, C<sub>2-18</sub> alkynyloxy, C<sub>1-18</sub> alkylthio, C<sub>3-10</sub> cycloalkyl, C<sub>4-10</sub> cycloalkynyl, halogen, -OH, -CN, cyanoalkyl, -NO<sub>2</sub>, -NR<sup>20</sup>R<sup>21</sup>, C<sub>1-18</sub> haloalkyl, C<sub>1-18</sub> haloalkyloxy, -C(=O)R<sup>18</sup>, -C(=O)OR<sup>18</sup>, -OalkenylC(=O)OR<sup>18</sup>, -OalkylC(=O)NR<sup>20</sup>R<sup>21</sup>, -OalkylOC(=O)R<sup>18</sup>, -C(=S)R<sup>18</sup>, SH, -C(=O)N(C<sub>1-6</sub> alkyl),

-N(H)S(O)(O)(C<sub>1-6</sub> alkyl), aryl, heterocyclic, C<sub>1-18</sub>alkylsulfone, arylsulfoxide, arylsulfonamide, aryl(C<sub>1-18</sub>)alkyloxy, aryloxy, aryl(C<sub>1-18</sub> alkyl)oxy, arylthio, aryl(C<sub>1</sub>-

18) alkylthio or aryl(C<sub>1-18</sub>) alkyl, where each may be optionally substituted with 1 or more =O, NR<sup>20</sup>R<sup>21</sup>, CN, C<sub>1-18</sub> alkoxy, heterocyclic, C<sub>1-18</sub> haloalkyl, heterocyclic alkyl, heterocyclic connected to R<sup>17</sup> by alkyl, alkoxyalkoxy or halogen;

 $R^{20}$  and  $R^{21}$  are independently selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{2-18}$  alkynyl, aryl,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl,  $-C(=O)R^{12}$ , or  $-C(=S)R^{12}$ ;

 $R^{27}$  is selected from hydrogen,  $C_{1\text{-}18}$  alkyl,  $C_{3\text{-}10}$  cycloalkyl, ( $C_{3\text{-}10}$  cycloalkyl)-  $C_{1\text{-}6}$  alkyl, aryl, and aryl  $C_{1\text{-}18}$  alkyl, and

salts, tautomers, isomers and solvates thereof.

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- 49. The compound of claim 48 wherein Y is a single bond, and R<sup>1</sup> is aryl.
- 50. The compound of claim 48 wherein X is  $C_{1}$ - $C_{10}$  alkylene,  $C_{2-10}$  alkenylene or  $C_{2-10}$  alkynylene.
- 51. The compound of claim 48 wherein  $\mathbb{R}^3$  is heterocylic.
- The compound of claim 48 wherein R³ is heterocyclic substituted with R¹¹²
   where Q is a bond and M is aryl.
  - 53. The compound of claim 48 wherein Y is a single bond, and R<sup>1</sup> is phenyl.
- The compound of claim 48 wherein R³ is isoxazole substituted with R¹¹ where
   Q is a bond and M is aryl.
- The compound of claim 48 wherein  $R^3$  is isoxazole substituted with  $R^{17}$  where 30 Q is a bond and M is phenyl.
  - 56. A compound having the general formula (C),

$$R^4$$
 $R^5$ 
 $R^{25}$ 
 $R^{25}$ 
 $R^{26}$ 
 $R^{26}$ 
 $R^{26}$ 

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wherein:

the dotted lines represent an optional double bond, provided that no two double bonds are adjacent to one another, and that the dotted lines represent at least 3, optionally 4 double bonds;

 $R^1$  is selected from hydrogen, aryl, heterocyclic,  $C_{1}$ - $C_{10}$  alkoxy,  $C_{1}$ - $C_{10}$  thioalkyl,  $C_{1}$ - $C_{10}$  alkyl-amino,  $C_{1}$ - $C_{10}$  dialkyl-amino,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkynyl, wherein each are optionally substituted with 1 or more  $R^6$ ;

Y is selected from single bond, O,  $S(O)_m$ ,  $NR^{11}$ , or  $C_{1-10}$  alkylene,  $C_{2-10}$  alkenylene,  $C_{2-10}$  alkynylene, wherein each may optionally include 1 to 3 heteroatoms selected from O, S or N;

 $R^2$  and  $R^4$  are independently selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{2-18}$  alkynyl,  $C_{1-18}$  alkoxy,  $C_{1-18}$  alkylthio, halogen, -OH, -CN, -NO<sub>2</sub>, -NR<sup>7</sup>R<sup>8</sup>,

20 haloalkyloxy, haloalkyl,  $-C(=0)R^9$ ,  $-C(=S)R^9$ , SH, aryl, aryloxy, arylthio, arylalkyl,  $C_{1-18}$  hydroxyalkyl,  $C_{3-10}$  cycloalkyl,  $C_{3-10}$  cycloalkyloxy,  $C_{3-10}$  cycloalkylthio,  $C_{3-10}$  cycloalkenyl,  $C_{7-10}$  cycloalkynyl, or heterocyclic, provided that when one of  $R^{25}$  or  $R^{26}$  is present, then either  $R^2$  or  $R^4$  is selected from (=0), (=S), and = $NR^{27}$ ;

X is selected from C<sub>1</sub>.C<sub>10</sub> alkylene, C<sub>2-10</sub> alkenylene or C<sub>2-10</sub> alkynylene, where each may include one or more heteroatoms selected from O, S, or N, provided any such heteroatom is not adjacent to the N in the ring;

m is any integer from 0 to 2;

R<sup>3</sup> is selected from aryl, aryloxy, arylthio, cycloalkyl, cycloalkenyl, cycloalkynyl, aryl-N(R<sup>10</sup>)-, or heterocyclic, where each said substituent may be optionally substituted with at least one R<sup>17</sup>, provided that for cycloalkenyl the double bond is not adjacent to a nitrogen, and provided R<sup>3</sup> M-Q- is not biphenyl;

R<sup>5</sup> is selected from hydrogen; C<sub>1-18</sub> alkyl, C<sub>2-18</sub> alkenyl, C<sub>2-18</sub> alkynyl, C<sub>1-18</sub> alkoxy, C<sub>1-18</sub> alkylthio, halogen, -OH, -CN, -NO<sub>2</sub>, -NR<sup>7</sup>R<sup>8</sup>, haloalkyloxy, haloalkyl, -C(=O)R<sup>9</sup>, -C(=O)OR<sup>9</sup>, -C(=S)R<sup>9</sup>, SH, aryl, aryloxy, arylthio, arylalkyl, C<sub>1-18</sub> hydroxyalkyl, C<sub>3-10</sub> cycloalkyl, C<sub>3-10</sub> cycloalkyloxy, C<sub>3-10</sub> cycloalkylthio, C<sub>3-10</sub> cycloalkynyl, or heterocyclic;

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 $R^6$  is selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{2-18}$  alkynyl,  $C_{1-18}$  alkynyl,  $C_{1-18}$  alkylsulfoxide,  $C_{1-18}$  alkylsulfone,  $C_{1-18}$  halo-alkyl,  $C_{2-18}$  halo-alkynyl,  $C_{1-18}$  halo-alkynyl,  $C_{1-18}$  halo-alkylthio,  $C_{3-10}$  cycloalkyl,  $C_{3-10}$  cycloalkenyl,  $C_{7-10}$  cycloalkynyl, halogen, OH, CN, cyanoalkyl,  $C_{0-18}$ ,  $C_{0-18}$ , arylcoxy, arylthio, arylsulfoxide, arylsulfone, arylsulfonamide, aryl $C_{1-18}$ )alkyloxy, aryl $C_{1-18}$ )alkylthio, heterocyclic,  $C_{1-18}$  hydroxyalkyl, where each may be optionally substituted with at least 1  $R^{19}$ ;

 $R^7$  and  $R^8$  are independently selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{1-18}$  alkenyl, aryl,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl, heterocyclic,  $-C(=O)R^{12}$ ;  $-C(=S)R^{12}$ , an amino acid residue linked through a carboxyl group thereof, or where  $R^7$  and  $R^8$  together with the nitrogen form a heterocyclic;

 $R^9$  and  $R^{18}$  are independently selected from hydrogen, OH,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl,  $C_{1-18}$  alkoxy,  $-NR^{15}R^{16}$ , aryl, an amino acid residue linked through an amino group of the amino acid,  $CH_2OCH(=O)R^{9a}$ , or  $CH_2OC(=O)OR^{9a}$  where  $R^{9a}$  is  $C_1-C_{12}$  alkyl,  $C_6-C_{20}$  aryl,  $C_6-C_{20}$  alkylaryl or  $C_6-C_{20}$  aralkyl;

 $R^{10}$  and  $R^{11}$  are independently selected from the group consisting of hydrogen,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl, aryl,  $-C(=O)R^{12}$ , heterocyclic, or an amino acid residue;

 $R^{12}$  is selected from the group consisting of hydrogen,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl, aryl,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl, or an amino acid residue;

 $R^{15}$  and  $R^{16}$  are independently selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{2-18}$  alkynyl, aryl,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl, or an amino acid residue;

R<sup>17</sup> is independently M-Q- wherein M is a ring optionally substituted with 1 or more R<sup>19</sup>, and Q is a bond or a linking group connecting M to R<sup>3</sup> having 1 to 10 atoms and optionally substituted with 1 or more R<sup>19</sup>;

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 $R^{19}$  is selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{2-18}$  alkynyl,  $C_{1-18}$  alkoxy,  $C_{2-18}$  alkenyloxy,  $C_{2-18}$  alkynyloxy,  $C_{1-18}$  alkylthio,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkynyl, halogen, -OH, -CN, cyanoalkyl, -NO<sub>2</sub>, -NR<sup>20</sup>R<sup>21</sup>,  $C_{1-18}$  haloalkyl,  $C_{1-18}$  haloalkyloxy, -C(=O)R<sup>18</sup>, -C(=O)OR<sup>18</sup>, -OalkenylC(=O)OR<sup>18</sup>, -OalkylC(=O)NR<sup>20</sup>R<sup>21</sup>, -OalkylOC(=O)R<sup>18</sup>, -C(=S)R<sup>18</sup>, SH, -C(=O)N(C<sub>1-6</sub> alkyl), -N(H)S(O)(O)(C<sub>1-6</sub> alkyl), aryl, heterocyclic,  $C_{1-18}$ alkylsulfone, arylsulfoxide, arylsulfonamide, aryl( $C_{1-18}$ )alkyloxy, aryloxy, aryl( $C_{1-18}$  alkyl)oxy, arylthio, aryl( $C_{1-18}$ )alkylthio or aryl( $C_{1-18}$ )alkyl, where each may be optionally substituted with 1 or more =O, NR<sup>20</sup>R<sup>21</sup>, CN,  $C_{1-18}$  alkoxy, heterocyclic,  $C_{1-18}$  haloalkyl, heterocyclic alkyl, heterocyclic connected to R<sup>17</sup> by alkyl, alkoxyalkoxy or halogen;

 $R^{20}$  and  $R^{21}$  are independently selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{2-18}$  alkenyl,  $C_{2-18}$  alkynyl, aryl,  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl,  $-C(=O)R^{12}$ , or  $-C(=S)R^{12}$ ;

 $R^{27}$  is selected from hydrogen,  $C_{1-18}$  alkyl,  $C_{3-10}$  cycloalkyl, ( $C_{3-10}$  cycloalkyl)- $C_{1-6}$  alkyl, aryl, and aryl  $C_{1-18}$  alkyl, and salts, tautomers, isomers and solvates thereof.

- 58. The compound of claim 56wherein X is  $C_{1}$ - $C_{10}$  alkylene,  $C_{2-10}$  alkenylene or  $C_{2-10}$  alkynylene.

The compound of claim 56 wherein Y is a single bond, and R<sup>1</sup> is aryl.

- 30 59. The compound of claim 56 wherein R<sup>3</sup> is heterocylic.
  - 60. The compound of claim 56 wherein  $R^3$  is heterocyclic substituted with  $R^{17}$  where Q is a bond and M is aryl.
- 35 61. The compound of claim 56 wherein Y is a single bond, and R<sup>1</sup> is phenyl.

The compound of claim 56 wherein R<sup>3</sup> is isoxazole substituted with R<sup>17</sup> where Q is a bond and M is aryl.

- 63. The compound of claim 56 wherein R<sup>3</sup> is isoxazole substituted with R<sup>17</sup> where Q is a bond and M is phenyl.
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  64. A method comprising administering to a subject in need of treatment or prophylaxis of a viral infection an antivirally effective amount of a compound of claims 1, 2, 3, 48 or 56.
- 15 65. The method of claim 64, wherein the viral infection is an infection of a hepatitis-C virus.
  - 66. The method of claim 65 further comprising administering at least one additional antiviral therapy to the subject.
- The method of claim 66 wherein the additional therapy is is selected from the group consisting of an interferon alpha and ribavirin.
- 68. A method of screening antiviral compounds which comprises providing a compound of claims 1, 2, 3, 48 or 56 and determining the anti-viral activity of said compound.
- 69. The method of claim 68 wherein said anti-viral activity is determined by the activity of said compound against one or more viruses belonging to the family of the Flaviviridae and/or of the Picornaviridae.
  - 70. A method for assaying the structure-activity of analogues of formula (A) compounds

$$\mathbb{R}^{3}$$
 $\mathbb{R}^{25}$ 
 $\mathbb{R}^{25}$ 
 $\mathbb{R}^{26}$ 
 $\mathbb{R}^{2}$ 
 $\mathbb{R}^{2}$ 
 $\mathbb{R}^{2}$ 
 $\mathbb{R}^{2}$ 
 $\mathbb{R}^{2}$ 
 $\mathbb{R}^{2}$ 
 $\mathbb{R}^{2}$ 
 $\mathbb{R}^{2}$ 
 $\mathbb{R}^{2}$ 

wherein the substituents are defined in WO 2004/005286, comprising

- (c) preparing a compound of formula (A) in which at least one substituent is not disclosed by WO 2004/005286; and
- (d) determining the anti-HCV activity of the compound of step (a).
  - 71. The method of claim 70 wherein the substituent is located at  $R^3$ ,  $R^2$ ,  $R^4$ ,  $R^{26}$  and/or  $R^5$ .

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